

## ABSTRACT

An automatic card shuffler includes a card input unit, card ejection unit, card separation and delivery unit and card collection unit. A card ejection unit ejects cards in a singular fashion from a stack of cards placed into the input unit. The cards are ejected to a stop arm maintaining the entrance to the card separation unit. Upon processor command, the stop arm raises to allow a plurality of cards to pass under to the card separation and delivery unit. A series of rotating belts and rollers act to separate the cards and propel them individually to the collection unit. A floating gate slightly forward of the stop arm dictates that a minimum number of cards are managed simultaneously. The shuffler is controlled by a processing unit in communication with multiple internal sensors. An audio system communicates voice outputs regarding shuffler malfunctions and instructions to an operator.

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